

WHAT IS CLAIMED IS:

1. A washing machine comprising:

a heating tank accommodating the washing and washing water;

a heating part heating the washing water in the heating tank; and

a circulation pump circulating the washing water in the heating tank.

2. The washing machine according to claim 1, further comprising:

a cabinet accommodating and supporting the heating tank, having an opening at the upper part thereof;

a cover provided at the upper part of the cabinet, opening and closing the opening of the heating tank; and

a controller controlling the heater to heat the washing water in the heating tank and controlling the circulation pump to circulate the washing water.

3. The washing machine according to claim 2, further comprising a control part selecting a washing course according to a washing material, and wherein the controller adjusts an operating time of the circulating pump according to the washing course selected by the control part.

4. The washing machine according to claim 3, wherein the controller controls the heating part according to the washing course selected by the control part to adjust a washing temperature.

1 5. The washing machine according to claim 3, wherein the washing course includes a boiling
2 course.

1 6. The washing machine according to claim 1, further comprising washing water circulation
2 pipes having a washing water suction pipe communicating with one part of the heating tank, guiding
3 the washing water from the heating tank to the circulation pump, and a washing water discharge pipe
4 communicating with another part of the heating tank, transferring the washing water from the
5 circulation pump to the heating tank.

1 7. The washing machine according to claim 6, wherein the washing water discharge pipe has
2 at least one spray hole for spraying the washing water in the heating tank.

1 8. The washing machine according to claim 7, further comprising a spray plate provided at
2 the lower part of the washing water discharge pipe and having a plurality of holes for evenly
3 supplying the washing water into the heating tank.

1 9. The washing machine according to claim 6, wherein the height of the washing water
2 suction pipe is higher than the height of the heating part.

1 10. The washing machine according to claim 1, wherein the heating part is comprised of a

2 heater being at the below part of the heating tank.

1 11. The washing machine according to claim 6, further comprising:

2 a water supply pipe having a first end connected to a water supply source outside the cabinet,
3 and a second end connected to the heating tank; and

4 a water supply valve provided in the water supply pipe, adjusting a washing water flow in
5 the water supply pipe.

1 12. The washing machine according to claim 6, further comprising:

2 a water drain pipe having a first end connected to a water drain source outside the cabinet,
3 and a second end connected to the washing water suction pipe; and

4 a water drain valve provided in the water drain pipe, adjusting a washing water flow in the
5 water drain pipe.

1 13. The washing machine according to claim 11, further comprising:

2 a water drain pipe having a first end connected to a water drain source outside the cabinet,
3 and a second end connected to the washing water suction pipe; and

4 a water drain valve provided in the water drain pipe, adjusting a washing water flow in the
5 water drain pipe.

1 14. The washing machine according to claim 6, further comprising:

2 a water drain pipe having a first end connected to a water drain source outside the cabinet,
3 and a second end connected to the heating tank; and
4 a water drain pump provided in the water drain pipe, draining out the washing water from
5 the heating tank.

1 15. The washing machine according to claim 11, further comprising:

2 a water drain pipe having a first end connected to a water drain source outside the cabinet,
3 and a second end connected to the heating tank; and
4 a water drain pump provided in the water drain pipe, draining out the washing water from
5 the heating tank.

1 16. The washing machine according to claim 1, wherein outside the heating tank is provided
2 an insulating material.

1 17. The washing machine according to claim 2, wherein inside the cover is provided at least
2 one pushing projection protruding inward the heating tank.

1 18. A method for controlling a washing machine including a heater heating washing water
2 in a heating tank, comprising the steps of:
3 supplying washing water to the heating tank;
4 heating the washing water in the heating tank to a predetermined temperature; and

5 circulating the washing water in the heating tank for a predetermined time.

1 19. The method according to claim 18, further comprising the step of draining out the
2 washing water after circulating the washing water for the predetermined time.

1 20. The method according to claim 19, further comprising the step of rinsing the washing
2 by supplying washing water again and drain out the washing water, after draining out the washing
3 water.

1 21. The method according to claim 18, further comprising the steps of:
2 selecting a washing course according to a washing material; and
3 adjusting the washing water circulating time according to the selected washing course.

1 22. The method according to claim 21, wherein the washing course includes a boiling course.

1 23. The method according to claim 21, wherein a washing water temperature is adjusted by
2 controlling the heater.